

CCCTCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTACCATATGGCACCGAGGATA
CCTAGAGGCCCATGCAAGAGAAGGCCCTTGTTCAGGCACACTGAGGGACCGCAGTCCTTAATTCCCTGGC
AGTTCCCTGAGATCTCAAGGAAGCAGGGGTCAAGGAGGGCTGGAGGAGGGCATACACCAAT
CTTGTGGCCTGCTGCCTAAGGGAAACAGGAGACCATGACAGCTATGC
TAACACTAGAAACCATGGCCAGTGAAGGAAGAAATATGGGCCAGGAACACTGTGTGGAGACGGGGC
CACAGGCTATCATTCACGCCCTGACTTGTAGGGCTTCAAGGGCTTCTTCAGCAAGACAGTCAGCAA
ACCATGGTCCCATCTGTCGGTTGCTGGAGGTGTGAGGGTCAAGCAAGGGCCAGAGAACGGCCACTGTCCAG
CTTGAGGGCGAGGCCAGCAGGCCACAGGGCACAGGGGGCACACTCGCCATGTGGGCCATTGTGCAACTGAATCAGCAGGAGAAA
GAACCTGGTCCAGATCCCTGGGGCCCACACTCGCCATGTGGGCCATTGTGCAACTGAATCAGCAGGAG
TCAAGGCCCTCCAGCCTATCTGTCATGCATCACCAGGCTTCTCAGCCTCGGGGCTTGCCTCTGCT
CACACACTTGCAGATATCAACACAGTTATGGTGCAACAGATCATCAAGTTCACCAAGGATCTGCCGCTC
TTCCGGGCTTAACCATGGAGGACCAAGATCTCCCTTCAGGGAGGGCTGTGGAAATAATTGCATATCT
CACTCAACACTACGTTCTGTCTCAAAACAGAGAAATTCTCTGTGGGCCTCTTGCTACAAGATGGAGGA
CGCAGTCCATGCAGGGTCCAGTACGAGTTGGAGGTCTCCACTCCACTCCATAAAAAACCTGAAAGGA
CTGCATCTCCAGGGAGGCTGTAGGTATGTGCTCATGGCTGCCAGGGCCCTCTCCCTGGTTCTGTATGC
AAAGCTGATGGGCCTGCTGGCTGACCTCCGGAGTATAAACAAATGCATACTCCTATGAACCTCAGCGCTTG
GAGGAACGTCTGCTATGACGCCGGCTGCTGGAGGAGATTGCAAGTTGAGGCCAGGGCTGGACCCCCACAGCAGAAGGAGCTTGG
CCAGACCCCCAGGGATACACTGGCTGGAAAGGGTACAGCGCTGGACCCCCACAGCAGAAGGAGCTTGG
GAGTGGCAATGAAATGCTGAACAGT (SEQ ID NO:1)

MTAMILTLETMASEEYYGPRNCVVCGDRATGYHFHALTCEGCKGF
FRRTVSKTIGPICPFAGRCEVSKAQRRRHCPCACRLQKCLNVGMRKDM
ILSAEALALRRARQAQRRAEKASLQLNQQQQKELVQILLGAHTRHVG
PLFDQFVQFKPPAYLFMHHHRPFQPRGPVPLLTHFADINTFMVQQIK
FTKDLPLPERSLTMEDQISLLKGAAVELHISLNNTFCLQTENFFCGPLC
YKMEDA VHAGFQYEFLESLLHFKNLKGHLQEPEYVLMATA
LFSPGFCMQS (SEQ ID NO:2)

FIG. 1

Construct

GI Number(s): 2267577

Gene Family: Nuclear Hormone Receptor

Gene Subfamily: Orphan NHR

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

CCCTCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTACCTACATATGGC
ACCGAGGATACTAGAGGCCCATGCAAGAGAAGGCCCTGTTCCAGGCAGTGAGGAC
CGCAGTCCTAATTCTGGCAGTCTCTGAGATCTCAAGGAAAGCAGGGTCAGCGAGGAGG
CCTGGGGAGAGGAGGCATCCTACACCCAATCTTGTGCCCTGCTGCTAACGGAAACAGGA
GACCAGACAGCTATGCTAACACTAGAAACCATGGCCAGTGAAGAAGAATATGGGCCAG
GAACTGTGTGGTGTGGAGACGGGCCACAGGCTATCATTTCCACGCCCTGACTTGTGA
GGGCTGCAAGGGCTTCTCAGACGAACAGTCAGCAAAACCATTGTCCCCTGTCCTGCA
TGCTGGAAGGTGTGGCATGAGGAAAGACATGATACTGTCAAGCAGAACGCCCTGGCATT
GAAGTGTCTAAATGTGGCATGAGGAAAGACATGATACTGTCAAGCAGAACGCCCTGGCATT
GCGCGAGCCAGACAGGCACAGCGGGCAGAGAAAGCATCTTGCAACTGAATCAGCA
GCAGAAAGAAACTGGTCCAGATCCTCCTGGGGCCACACTCGCCATGTGGGCCATTGTT
TGACCAAGTTGTGCAAGTCTCAAGGCTCCAGGCTATCTGTCATGCATCACCGGCCATTCCA
GCCTCGGGCCCCGTGTTGCCCTGCTGCTCACACACTTGCAAGATATCAACACGTTATGGT
GCAACAGATCATCAAGTCAACAGGATCTGCCGCTCTCCGGCCCTAACCATGGAGGA
CCAGATCTCCCTCTCAAGGGAGCGGCTGTGAAATATTGCAATCTCACTAACACTAC
GTTCTGTCTCAAACAGAGAATTCTCTGTGGGCTCTTGCTACAAGATGGAGGACGC
AGTCCATGCAGGGTCCAGTACGAGTTTGAGTCAGTCTCCACTTCCATTTCCATAAAAACT
GAAAGGACTGCATCTCAGGAGCCTGAGTATGTGCTATGGCTGCCACGCCCTCTTC
CCCTGGTTCTGTATGCAAAGCTGATGGGCTGCTGGCTGACCTCCGGAGTATAAACAT
GCATACTCCTATGAACCTCAGCGCTTGGAGGAACGTGCTGCTATGACGCCGCTGCTCGG
GAGATTGCAAGTGTGGAGGCCAGGGCTTGCATCCTTCCCCAGACCCCCAGGGATAACTGG
CCTGGAAAGGGTACAGCGCTGGACCCACACAGCAGAAGGAGCTGGAGTGGCAATGAA
ATGCTGAACAGT

Gene Sequence Structure *

282 bp

Sequence Deleted

403 bp

Size of full-length cDNA: 1332 bp



FIG. 2A

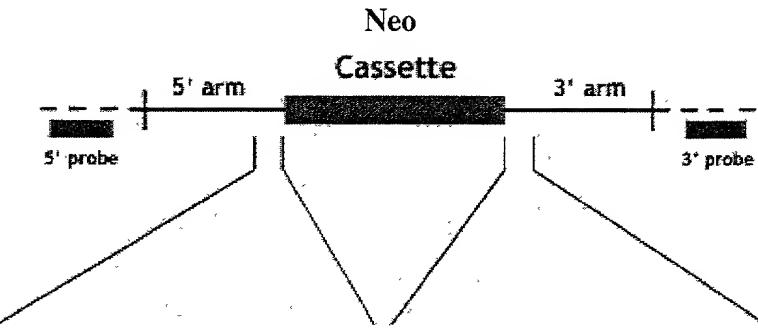
Targeting Vector* (genomic sequence)

Construct Number: 138

Arm Length:

5': 3.5 kb

3': 1.9 kb



— Targeting Vector
- - - Endogenous Locus

* Not drawn to scale

5' > TTGGAGGCCAGAGACAAAAAG
CAACATTTTGCTTTAATGTCCT
CAGTGCAGGGAGCCCGGTGTCAG
GCTGGGCAGTCTTGGGAAGAGATT
CTGTAGAGGAGAGAGAAGAGAGTC
CTATGGCCCAGTGCTGATTCTCAA
CTCCTCCCCACATTCAAGGAGACCAT
GACAGCTATGCTAACAC : TAGAAC
CATGCCAGTG<3'
(SEQ ID NO: 3)

5' > GGTCCCATCTGTCGTTGCT
GGAAGGTGTGAGGTCAAGGCC
CAGAGACGCCACTGTCCAGCCTGC
AGGTTGCAGAAGTGTCTAAATGTT
GGCATGAGGAAAGACAGTGAGTTG
GTCCCTACCGTTCCAGGAGTCCAT
TGGTGCTCTCTGCTTTGTTCA
GTTCCCACAGCAGGCAGAGTGAGC
TGTGAAACC<3'
(SEQ ID NO: 4)

FIG. 2B

necropsy - spleen weight/body weight

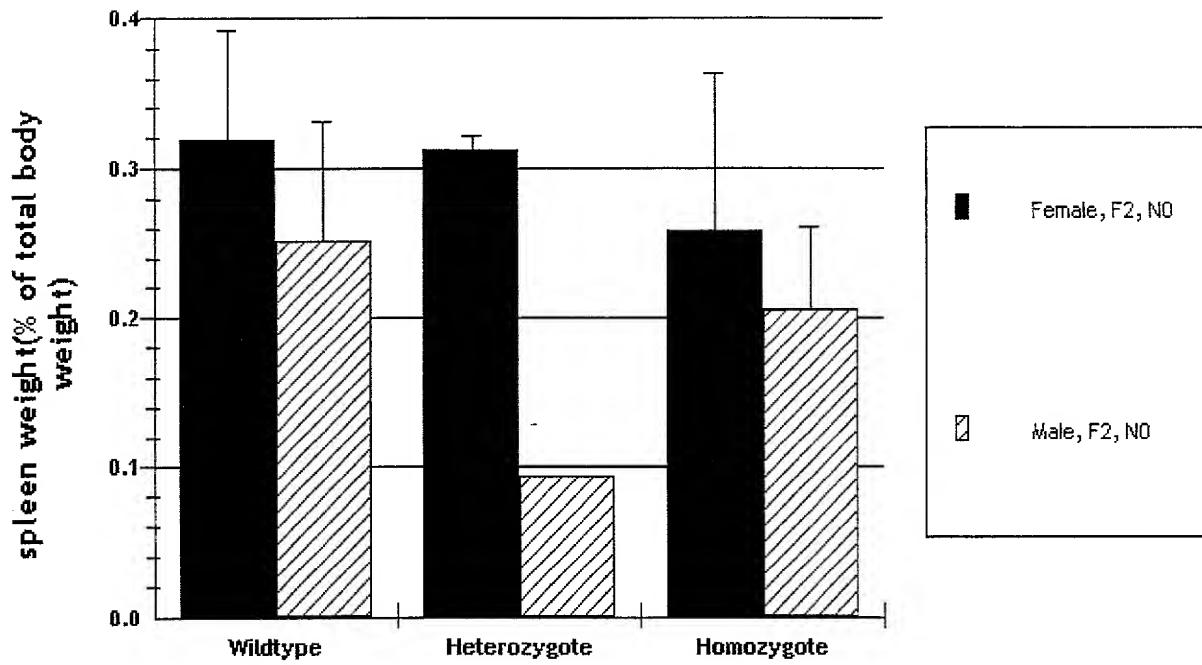


FIG. 3

necropsy - thymus weight/body weight

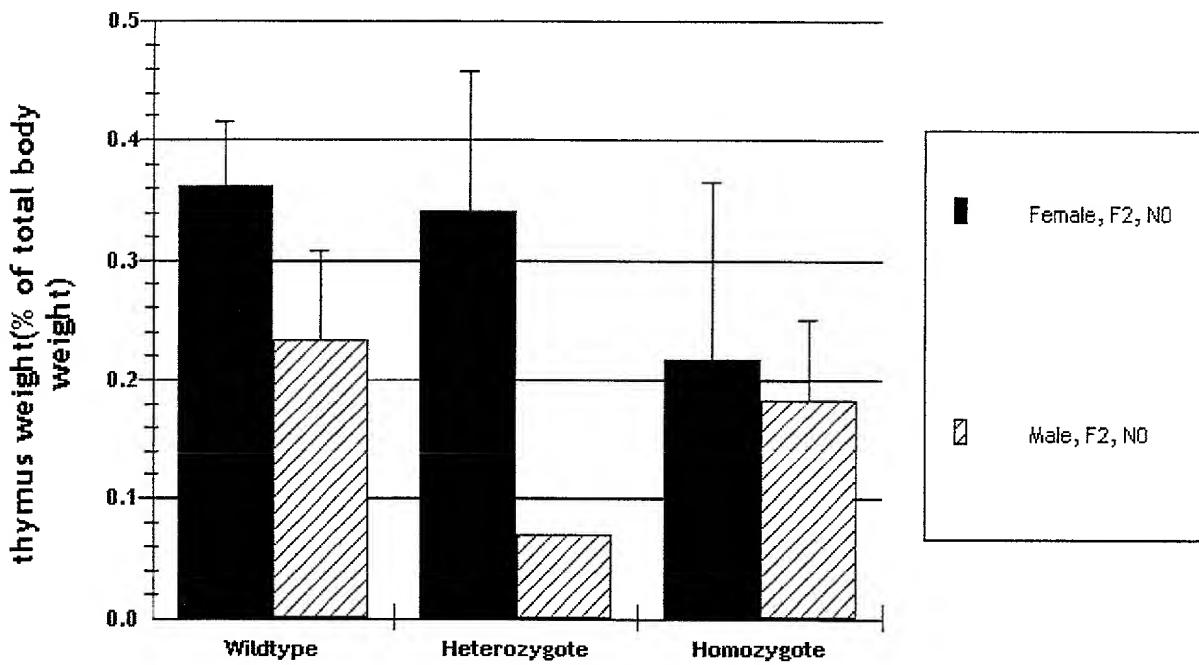


FIG. 4